

# ALABAMA DEPARTMENT OF AGRICULTURE & INDUSTRIES

**RICK PATE**  
*Commissioner*



## FERTILIZER AND FERTILIZER MATERIAL

Fiscal Year 2023 – 2024

Department Bulletin No. 150



**Rick Pate**  
*Commissioner*

# ALABAMA DEPARTMENT OF AGRICULTURE & INDUSTRIES

1445 Federal Drive • Montgomery, Alabama 36107-1123

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Honorable Rick Pate  
Commissioner of Alabama Department of Agriculture & Industries  
1445 Federal Drive  
Montgomery, Alabama 36107-1123

Dear Commissioner Pate:

Submitted herewith is a report setting forth the results of analyses of the official fertilizer samples obtained from fertilizer manufacturers marketing in Alabama during the fiscal year 2023 - 2024, The Laws of Alabama Relating to Agriculture Section §2-22-19, requires the annual publication of this report.

As in previous publications, this year's fertilizer bulletin not only lists the samples and deficiencies, but also summarizes them by fertilizer type. We believe this format provides more information that is detailed for farmers, household consumers, and manufacturers.

We feel this report not only informs the Alabama consumers but also reflects the diverse products manufactured by various companies marketing fertilizer in Alabama.

Sincerely,

*Blake & Pickett*

Blake Pickett, Unit Manager  
*Agricultural Compliance Inspection Section*

**STATE OF ALABAMA**  
**BOARD OF AGRICULTURE AND INDUSTRIES**  
**2023 ~ 2024**

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(*Governor, State of Alabama*)

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## **CONTROL OF FERTILIZER AND FERTILIZER MATERIAL IN ALABAMA**

The fertilizer control program in Alabama established by the Alabama Fertilizer Law of 1969, which is designated to protect manufacturers and users of fertilizer by the licensing of manufacturers and inspection, sampling and analysis of commercial fertilizer and fertilizer materials marketed in this state.

The fertilizer laws and the regulations promulgated by the State Board of Agriculture. The enforcement of the laws is administered by the Agricultural Compliance Inspection Division. The offices are in the Richard Beard Building, 1445 Federal Drive, Montgomery, Alabama 36107. The State Chemical Laboratory, Auburn, Alabama, carries out the analytical and laboratory work on all samples for fertilizer, lime, and feed.

**STATE CHEMICAL LABORATORY**  
1171 Wire Road  
Auburn, Alabama 36832

Rebecca Moseley, Director ----- Auburn

## AGRICULTURAL COMPLIANCE INSPECTION SECTION

Blake Pickett-----Montgomery  
 Agricultural Compliance Inspection Section, *Program Manager*

Cari Dennis-----Montgomery  
 Agricultural Compliance Inspection Section, *Administration Assistant*,  
 Penalty collector for Feed, Fertilizer, and Lime.

Macie Cooper -----Montgomery  
 Agricultural Compliance Inspection Section, *Administration Assistant*,  
 Seed Permitting and Clerk for Feed, Fertilizer, and Lime.

### Agriculture Compliance Field Inspectors and Territories

Jamie Booker ----- Atmore  
 Agricultural & Consumer Protection Specialist, *Field Supervisor*

|            |         |           |        |        |
|------------|---------|-----------|--------|--------|
| Territory: | Baldwin | Escambia  | Mobile | Monroe |
|            | Conecuh | Covington |        |        |

Jason Fields ----- Hartselle  
 Consumer Protection Specialist

|            |           |           |         |         |
|------------|-----------|-----------|---------|---------|
| Territory: | Limestone | Morgan    | Madison | Cullman |
|            | Blount    | Jefferson |         |         |

Coty Galloway ----- Jacksonville  
 Consumer Protection Specialist

|            |           |          |          |        |
|------------|-----------|----------|----------|--------|
| Territory: | St. Clair | Cherokee | Marshall | DeKalb |
|            | Jackson   | Calhoun  | Cleburne | Etowah |

Carl Jackson ----- Camden  
 Coordinator for Federal Animal Feed Contract and Consumer Protection  
 Specialist

|            |         |            |            |          |
|------------|---------|------------|------------|----------|
| Territory: | Pickens | Sumter     | Greene     | Hale     |
|            | Marengo | Choctaw    | Washington | Clarke   |
|            | Wilcox  | Tuscaloosa | Bibb       | Perry    |
|            | Dallas  | Lowndes    | Butler     | Crenshaw |

Bill McMillan ----- Dothan  
Consumer Protection Specialist

Territory: Houston Henry Geneva Pike  
Barbour Coffee Macon

Kenny Mehearg ----- Wetumpka  
Consumer Protection Specialist

Territory: Macon Coosa Elmore Autauga  
Bullock Chambers Lee Randolph  
Montgomery Shelby Chilton Russell  
Chilton Clay Tallapoosa

Kevin Rye ----- Hamilton  
Consumer Protection Specialist

Territory: Fayette Marion Walker Lauderdale  
Lamar Winston Colbert Franklin  
Lawrence

## **FOREWORD**

During the 2023 - 2024, fiscal year the fertilizer of the various manufacturers marketed in the state of Alabama were inspected and samples collected based on the annual volume of sales enjoyed by each manufacturer.

This bulletin contains a table showing the total number of fertilizer samples obtained representing each manufacturer's products and the number of these that proved by official analysis to be deficient from guarantee, and a listing of all the official samples and results of analyses.

**FERTILIZER TONNAGE**  
 Fiscal Year  
 October 1 ~ September 30

| <u>Year</u> | <u>Tonnage</u> |
|-------------|----------------|
| 1913-14     | 595,200        |
| 1914-15     | 301,801        |
| 1915-16     | 212,250        |
| 1916-17     | 209,724        |
| 1917-18     | 292,623        |
| 1918-19     | 298,007        |
| 1919-20     | 391,171        |
| 1920-21     | 180,248        |
| 1921-22     | 295,429        |
| 1922-23     | 436,786        |
| 1923-24     | 472,260        |
| 1924-25     | 580,000        |
| 1925-26     | 603,444        |
| 1926-27     | 468,683        |
| 1927-28     | 692,318        |
| 1928-29     | 677,375        |
| 1929-30     | 648,150        |
| 1930-31     | 421,050        |
| 1931-32     | 204,900        |
| 1932-33     | 274,600        |
| 1933-34     | 368,600        |
| 1934-35     | 421,200        |
| 1935-36     | 470,500        |
| 1936-37     | 622,300        |
| 1937-38     | 534,950        |
| 1938-39     | 554,450        |
| 1939-40     | 579,250        |
| 1940-41     | 572,000        |
| 1941-42     | 574,000        |
| 1942-43     | 631,000        |
| 1943-44     | 720,000        |
| 1944-45     | 735,000        |
| 1945-46     | 805,954        |
| 1946-47     | 777,600        |
| 1947-48     | 964,644        |
| 1948-49     | 1,057,087      |
| 1949-50     | 1,005,548      |
| 1950-51     | 1,104,041      |
| 1951-52     | 1,146,515      |



## FERTILIZER TONNAGE

| <u>Year</u>  | <u>Tonnage</u> |
|--------------|----------------|
| 1952-53----- | 1,063,422      |
| 1953-54----- | 1,089,000      |
| 1954-55----- | 1,108,000      |
| 1955-56----- | 1,057,000      |
| 1956-57----- | 985,000        |
| 1957-58----- | 908,353        |
| 1959-60----- | 1,038,697      |
| 1960-61----- | 1,012,707      |
| 1961-62----- | 984,883        |
| 1962-63----- | 1,003,275      |
| 1963-64----- | 998,356        |
| 1964-65----- | 989,569        |
| 1965-66----- | 985,693        |
| 1966-67----- | 1,009,830      |
| 1967-68----- | 1,049,777      |
| 1968-69----- | 1,047,438      |
| 1969-70----- | 1,006,521      |
| 1970-71----- | 1,033,627      |
| 1971-72----- | 1,106,774      |
| 1972-73----- | 1,164,090      |
| 1973-74----- | 1,123,396      |
| 1974-75----- | 909,375        |
| 1975-76----- | 1,076,903      |
| 1976-77----- | 1,113,212      |
| 1977-78----- | 1,054,145      |
| 1978-79----- | 1,036,518      |
| 1979-80----- | 957,572        |
| 1980-81----- | 1,014,152      |
| 1981-82----- | 886,971        |
| 1982-83----- | 740,636        |
| 1983-84----- | 868,848        |
| 1984-85----- | 855,837        |
| 1985-86----- | 693,742        |
| 1986-87----- | 659,767        |
| 1987-88----- | 621,421        |
| 1988-89----- | 626,436        |
| 1989-90----- | 677,385        |
| 1990-91----- | 637,792        |
| 1991-92----- | 666,675        |

## FERTILIZER TONNAGE

| <u>Year</u>  | <u>Tonnage</u> |
|--------------|----------------|
| 1992-93----- | 719,346        |
| 1993-94----- | 739,340        |
| 1994-95----- | 706,867        |
| 1995-96----- | 746,996        |
| 1996-97----- | 738,632        |
| 1997-98----- | 739,798        |
| 1998-99----- | 738,803        |
| 1999-00----- | 628,838        |
| 2000-01----- | 780,042        |
| 2001-02----- | 708,944        |
| 2002-03----- | 629,418        |
| 2003-04----- | 658,655        |
| 2004-05----- | 580,663        |
| 2005-06----- | 633,901        |
| 2006-07----- | 694,566        |
| 2007-08----- | 653,006        |
| 2008-09----- | 633,805        |
| 2009-10----- | 451,877        |
| 2010-11----- | 473,065        |
| 2011-12----- | 482,751        |
| 2012-13----- | 493,672        |
| 2013-14----- | 513,187        |
| 2014-15----- | 489,490        |
| 2015-16----- | 538,439        |
| 2016-17----- | 588,874        |
| 2017-18----- | 626,345        |
| 2018-19----- | 626,308        |
| 2019-20----- | 671,736        |
| 2020-21----- | 710,495        |
| 2021-22----- | 541,121        |
| 2022-23----- | 598,977        |
| 2023-24----- | 760,052        |

## COMMERCIAL VALUE OF FERTILIZERS

In keeping with Section §2-22-14 of the Alabama Fertilizer Law of 1969 (Chapter 22, Title 2, Code of Alabama 1975), it has been determined that the commercial values of the fertilizer ingredients, Nitrogen, P2O5, K2O, were moved throughout the 2023-2024 year to be as follows:

- Nitrogen (N):  
Beginning the year at \$16.91, and ending the year with \$12.45 per percent unit per ton
- Available Phosphorus (P2O5):  
Beginning the year at \$11.04, and ending the year with \$13.27 per percent unit per ton
- Soluble Potassium (K2O):  
Beginning the year at \$10.70, and ending the year with \$9.20 per percent unit per ton

To compute the values of fertilizer according to this scale the valuation of nitrogen per ton obtained by multiplying the percent of this constituent by \$16.91. The value of available phosphorus per ton is determined by multiplying the percent of the constituent by \$11.04. The value of available soluble potassium is determined by multiplying the percent of soluble potassium by \$10.703 in order to arrive at the potash value per ton.

- An example of determining the commercial value of §4-12-12 is stated below:

|                                   |                  |            |
|-----------------------------------|------------------|------------|
| Nitrogen (N) -----                | 4.00 x \$ 16.91  | = \$67.64  |
| Available Phosphorus (P2O5) ----- | 12.00 x \$ 11.04 | = \$132.42 |
| Soluble Potassium (K2O) -----     | 12.00 x \$ 10.70 | = \$128.40 |

**TOTAL COMMERCIAL VALUE    \$328.46**

## **TYPES OF FERTILIZER SAMPLED**

DBP - DRY BLEND PACKAGED

DBB - DRY BLEND BULK

GP - GRANULAR PACKAGED

GB - GRANULAR BULK

LB - LIQUID BULK OR SUSPENSION BULK

LP - LIQUID PACKAGED

### **Inspector Sample Identification**

Jamie Booker ----- JB

Jason Fields----- JF

Coty Galloway----- CG

Carl Jackson ----- CJ

Bill McMillan ----- BM

Kenny Mehearg----- KM

Blake Pickett ----- BP

Kevin Rye ----- KR

# FERTILIZER SAMPLES ANALYSIS BY COMPANY

| COMPANY NAME                    | SAMPLE NUMBER | DATE SAMPLED | LABEL GUARANTEE |   |      |   | ANALYSIS FOUND |   |        |         |   |       |   |         |   |        |
|---------------------------------|---------------|--------------|-----------------|---|------|---|----------------|---|--------|---------|---|-------|---|---------|---|--------|
|                                 |               |              | N               | / | P    | / | K              | / | CV     | N       | / | P     | / | K       | / | CV     |
| AGRO LIQUID                     | 7-JB-24-FERT  | 03/19/2024   | 0               | / | 0    | / | 0              | / | 0      | 0       | / | 0     | / | 0       | / | 0      |
| ANDALUSIA FARMERS CO-OP         | 33-JB-24-FERT | 04/23/2024   | 24              | / | 7    | / | 14             | / | 519.79 | 23.84   | / | 6.90  | / | 14.85   | / | 524.30 |
| ANDALUSIA FARMERS CO-OP         | 34-JB-24-FERT | 04/23/2024   | 6               | / | 15   | / | 27             | / | 520.65 | 5.79    | / | 16.17 | / | 26.02   | / | 524.43 |
| ANDALUSIA FARMERS CO-OP         | 35-JB-24-FERT | 04/23/2024   | 6               | / | 15   | / | 27             | / | 520.65 | 5.81    | / | 15.43 | / | 26.03   | / | 515.02 |
| ANDALUSIA FARMERS CO-OP         | 36-JB-24-FERT | 04/23/2024   | 6               | / | 15   | / | 27             | / | 520.65 | 5.86    | / | 15.18 | / | 26.56   | / | 517.23 |
| ANDALUSIA FARMERS CO-OP         | 37-JB-24-FERT | 04/23/2024   | 6               | / | 15   | / | 27             | / | 520.65 | 5.59    | / | 15.75 | / | 26.74   | / | 523.04 |
| ANDALUSIA FARMERS CO-OP         | 38-JB-24-FERT | 04/23/2024   | 6               | / | 15   | / | 27             | / | 520.65 | 5.65    | / | 15.50 | / | 26.97   | / | 522.59 |
| ATMORE AGRONOMY                 | 10-JB-24-FERT | 04/05/2024   | 7               | / | 9    | / | 35             | / | 527.68 | 7.36    | / | 9.35  | / | 35.10   | / | 537.63 |
| ATMORE AGRONOMY                 | 11-JB-24-FERT | 04/05/2024   | 7               | / | 9    | / | 35             | / | 527.68 | 7.15    | / | 9.38  | / | 35.38   | / | 538.05 |
| ATMORE AGRONOMY                 | 18-JB-24-FERT | 04/15/2024   | 9               | / | 23   | / | 30             | / | 690.96 | 9.28    | / | 24.66 | / | 27.52   | / | 693.49 |
| ATMORE AGRONOMY                 | 19-JB-24-FERT | 04/15/2024   | 9               | / | 23   | / | 30             | / | 690.96 | 8.17    | / | 22.13 | / | 30.57   | / | 674.41 |
| ATMORE AGRONOMY                 | 20-JB-24-FERT | 04/15/2024   | 7               | / | 9    | / | 35             | / | 527.68 | 7.11    | / | 9.47  | / | 36.74   | / | 551.25 |
| ATMORE AGRONOMY                 | 21-JB-24-FERT | 04/15/2024   | 7               | / | 9    | / | 35             | / | 527.68 | 8.01    | / | 10.17 | / | 32.96   | / | 536.89 |
| ATMORE AGRONOMY                 | 40-JB-24-FERT | 06/24/2024   | 23              | / | 8    | / | 15             | / | 529.71 | 23.23   | / | 8.13  | / | 14.66   | / | 531.15 |
| ATMORE AGRONOMY                 | 41-JB-24-FERT | 06/24/2024   | 23              | / | 8    | / | 15             | / | 529.71 | 22.31   | / | 8.69  | / | 15.87   | / | 538.21 |
| CULLMAN FARMERS COOP            | 14-JF-24-FERT | 04/29/2024   | 29.0            | / | 0    | / | 21.0           | / | 554.25 | 30.16   | / | 0     | / | 20.63   | / | 565.29 |
| ELMORE COUNTY FARMERS EXCHANGE  | 10-KM-24-FERT | 04/25/2024   | 29.0            | / | 19.0 | / | 5.0            | / | 657.28 | 28.61   | / | 22.50 | / | 5.54    | / | 703.48 |
| ELMORE COUNTY FARMERS EXCHANGE  | 17-KM-24-FERT | 05/03/2024   | 22.0            | / | 6.0  | / | 22.0           | / | 555.32 | 22.77   | / | 6.95  | / | 20.87   | / | 567.02 |
| ELMORE COUNTY FARMERS EXCHANGE  | 18-KM-24-FERT | 05/16/2024   | 15.0            | / | 5.0  | / | 10.0           | / | 344.60 | 14.83   | / | 5.30  | / | 10.60   | / | 351.95 |
| ELMORE COUNTY FARMERS EXCHANGE  | 19-KM-24-FERT | 05/16/2024   | 22.0            | / | 6.0  | / | 22.0           | / | 555.32 | 22.47   | / | 6.62  | / | 22.40   | / | 573.02 |
| ELMORE COUNTY FARMERS EXCHANGE  | 23-KM-24-FERT | 08/01/2024   | 10.0            | / | 6.0  | / | 9.0            | / | 286.32 | 10.98   | / | 7.77  | / | 8.67    | / | 318.79 |
| ELMORE COUNTY FARMERS EXCHANGE  | 24-KM-24-FERT | 08/01/2024   | 10.0            | / | 6.0  | / | 9.0            | / | 286.32 | 10.75   | / | 7.04  | / | 9.33    | / | 312.43 |
| FARMERS CO-OP MKT - FRISCO CITY | 4-JB-24-FERT  | 02/02/2024   | 32              | / | 8    | / | 11             | / | 747.14 | 31.82   | / | 7.33  | / | 12.16   | / | 749.11 |
| FARMERS CO-OP MKT - FRISCO CITY | 5-JB-24-FERT  | 02/02/2024   | 32              | / | 8    | / | 11             | / | 747.14 | 31.79   | / | 8.86  | / | 10.84   | / | 751.37 |
| FARMERS CO-OP MKT - FRISCO CITY | 8-JB-24-FERT  | 04/04/2024   | 7               | / | 18   | / | 36             | / | 655.41 | 7.61    | / | 18.04 | / | 33.29   | / | 638.62 |
| FARMERS CO-OP MKT - FRISCO CITY | 9-JB-24-FERT  | 04/04/2024   | 7               | / | 18   | / | 36             | / | 655.41 | 7.04    | / | 17.65 | / | 35.17   | / | 643.66 |
| FARMERS CO-OP MKT - FRISCO CITY | 31-JB-24-FERT | 04/18/2024   | 8               | / | 22   | / | 29             | / | 656.14 | 8.56    | / | 22.19 | / | 28.53   | / | 661.29 |
| FARMERS CO-OP MKT - FRISCO CITY | 32-JB-24-FERT | 04/18/2024   | 8               | / | 22   | / | 29             | / | 656.14 | 7.97    | / | 21.27 | / | 29.84   | / | 653.89 |
| FAYETTE AG SERVICES INC         | 2-KR-24-FERT  | 04/04/2024   | 22              | / | 10   | / | 15             | / | 543.60 | 22.00   | / | 12.72 | / | 12.94** | / | 560.47 |
| FAYETTE AG SERVICES INC         | 3-KR-24-FERT  | 04/04/2024   | 21              | / | 0    | / | 0              | / | 261.45 | 19.48** | / | 0     | / | 0       | / | 242.53 |
| GREENPOINT AG - DECATUR         | 3-CG-24-FERT  | 04/24/2024   | 5.0             | / | 15.0 | / | 30.0           | / | 535.80 | 9.16    | / | 18.02 | / | 27.39   | / | 603.35 |

| COMPANY NAME              | SAMPLE NUMBER | DATE SAMPLED | LABEL GUARANTEE |   |      |   | ANALYSIS FOUND |   |        |         |   |         |   |         |   |        |
|---------------------------|---------------|--------------|-----------------|---|------|---|----------------|---|--------|---------|---|---------|---|---------|---|--------|
|                           |               |              | N               | / | P    | / | K              | / | CV     | N       | / | P       | / | K       | / | CV     |
| GREENPOINT AG - DECATUR   | 4-CG-24-FERT  | 04/24/2024   | 5.0             | / | 15.0 | / | 30.0           | / | 535.80 | 5.91    | / | 15.68   | / | 27.45   | / | 532.63 |
| GREENPOINT AG - DECATUR   | 5-CG-24-FERT  | 04/24/2024   | 5.0             | / | 15.0 | / | 30.0           | / | 535.80 | 5.77    | / | 15.83   | / | 28.50   | / | 542.52 |
| GREENPOINT AG - DECATUR   | 6-CG-24-FERT  | 04/24/2024   | 5.0             | / | 15.0 | / | 30.0           | / | 535.80 | 9.98    | / | 17.20   | / | 27.46   | / | 603.40 |
| GREENPOINT AG - DECATUR   | 7-CG-24-FERT  | 04/24/2024   | 46.0            | / | 0    | / | 0              | / | 572.70 | 45.52   | / | 0       | / | 0       | / | 566.72 |
| GREENPOINT AG - DECATUR   | 8-CG-24-FERT  | 04/25/2024   | 5.0             | / | 15.0 | / | 30.0           | / | 535.80 | 5.94    | / | 16.61   | / | 25.86** | / | 530.61 |
| GREENPOINT AG - DECATUR   | 9-CG-24-FERT  | 04/25/2024   | 5.0             | / | 15.0 | / | 30.0           | / | 535.80 | 6.07    | / | 15.43   | / | 27.86   | / | 535.09 |
| GREENPOINT AG - DECATUR   | 9-JF-24-FERT  | 04/25/2024   | 46.0            | / | 0    | / | 0              | / | 572.70 | 45.34   | / | 0       | / | 0       | / | 564.48 |
| GREENPOINT AG - DECATUR   | 10-JF-24-FERT | 04/25/2024   | 46.0            | / | 0    | / | 0              | / | 572.70 | 45.12   | / | 0       | / | 0       | / | 561.74 |
| GREENPOINT AG - DECATUR   | 16-KM-24-FERT | 04/29/2024   | 18.0            | / | 46.0 | / | 0              | / | 829.92 | 18.78   | / | 47.37   | / | 0       | / | 857.67 |
| GREENPOINT AG - DOTHAN    | 1-BM-24-FERT  | 08/28/2024   | 28              | / | 0    | / | 0              | / | 348.60 | 28.14   | / | 0       | / | 0       | / | 350.34 |
| GREENPOINT AG - EVERGREEN | 2-CJ-24-FERT  | 10/30/2023   | 17              | / | 17   | / | 17             | / | 657.05 | 16.24   | / | 16.75   | / | 19.66   | / | 669.90 |
| GREENPOINT AG - EVERGREEN | 3-CJ-24-FERT  | 10/30/2023   | 16              | / | 4    | / | 8              | / | 400.32 | 16.07   | / | 5.22    | / | 11.73   | / | 454.88 |
| GREENPOINT AG - EVERGREEN | 2-JB-24-FERT  | 11/09/2023   | 17              | / | 17   | / | 17             | / | 657.05 | 17.48   | / | 17.99   | / | 15.61   | / | 661.23 |
| GREENPOINT AG - EVERGREEN | 6-CJ-24-FERT  | 01/31/2024   | 33              | / | 0    | / | 0              | / | 558.03 | 35.48   | / | 0       | / | 0       | / | 599.97 |
| GREENPOINT AG - EVERGREEN | 10-CJ-24-FERT | 04/10/2024   | 17              | / | 17   | / | 17             | / | 591.94 | 18.00   | / | 17.80   | / | 15.56   | / | 601.68 |
| GREENPOINT AG - EVERGREEN | 11-CJ-24-FERT | 04/10/2024   | 34              | / | 0    | / | 0              | / | 423.30 | 32.79   | / | 0       | / | 0       | / | 408.24 |
| GREENPOINT AG - EVERGREEN | 12-CJ-24-FERT | 04/12/2024   | 10              | / | 10   | / | 10             | / | 348.20 | 10.14   | / | 9.70    | / | 7.65**  | / | 324.37 |
| GREENPOINT AG - EVERGREEN | 13-CJ-24-FERT | 04/12/2024   | 13              | / | 13   | / | 13             | / | 452.66 | 10.78** | / | 12.60   | / | 10.16** | / | 393.62 |
| GREENPOINT AG - EVERGREEN | 14-CJ-24-FERT | 04/12/2024   | 8               | / | 8    | / | 8              | / | 278.56 | 7.55    | / | 7.13**  | / | 6.40**  | / | 246.79 |
| GREENPOINT AG - EVERGREEN | 16-JB-24-FERT | 04/11/2024   | 34              | / | 0    | / | 0              | / | 423.30 | 35.42   | / | 0       | / | 0       | / | 440.98 |
| GREENPOINT AG - EVERGREEN | 17-JB-24-FERT | 04/11/2024   | 17              | / | 17   | / | 17             | / | 591.94 | 19.31   | / | 16.00   | / | 16.77   | / | 605.41 |
| GREENPOINT AG - EVERGREEN | 17-CJ-24-FERT | 04/24/2024   | 13              | / | 13   | / | 13             | / | 452.66 | 14.44   | / | 8.46**  | / | 8.27**  | / | 367.28 |
| GREENPOINT AG - EVERGREEN | 18-CJ-24-FERT | 04/24/2024   | 17              | / | 17   | / | 17             | / | 591.94 | 16.43   | / | 17.12   | / | 18.06   | / | 596.17 |
| GREENPOINT AG - EVERGREEN | 19-CJ-24-FERT | 04/24/2024   | 33              | / | 0    | / | 0              | / | 410.85 | 33.26   | / | 0       | / | 0       | / | 414.09 |
| GREENPOINT AG - EVERGREEN | 39-JB-24-FERT | 04/23/2024   | 13              | / | 13   | / | 13             | / | 452.66 | 12.80   | / | 11.89   | / | 13.92   | / | 444.01 |
| GREENPOINT AG - EVERGREEN | 44-JB-24-FERT | 07/08/2024   | 10              | / | 10   | / | 10             | / | 348.20 | 9.55    | / | 7.98**  | / | 8.80**  | / | 304.96 |
| GREENPOINT AG - EVERGREEN | 48-JB-24-FERT | 09/05/2024   | 13              | / | 13   | / | 13             | / | 452.66 | 12.80   | / | 10.54** | / | 14.70   | / | 433.41 |
| GREENPOINT AG - EVERGREEN | 49-JB-24-FERT | 09/05/2024   | 17              | / | 17   | / | 17             | / | 591.94 | 17.24   | / | 16.07   | / | 17.15   | / | 584.06 |
| GREENPOINT AG - GRAND BAY | 42-JB-24-FERT | 06/25/2024   | 28              | / | 0    | / | 0              | / | 348.60 | 27.51   | / | 0       | / | 0       | / | 342.50 |
| GREENPOINT AG - LOXLEY    | 23-JB-24-FERT | 04/17/2024   | 10              | / | 26   | / | 26             | / | 706.12 | 10.10   | / | 26.18   | / | 26.36   | / | 713.04 |
| GREENPOINT AG - LOXLEY    | 25-JB-24-FERT | 04/17/2024   | 15              | / | 23   | / | 12             | / | 600.06 | 14.68   | / | 26.47   | / | 13.42   | / | 654.84 |
| GREENPOINT AG - LOXLEY    | 26-JB-24-FERT | 04/17/2024   | 7               | / | 18   | / | 36             | / | 655.41 | 6.73    | / | 17.35   | / | 36.58   | / | 648.83 |

| COMPANY NAME                   | SAMPLE NUMBER | DATE SAMPLED | LABEL GUARANTEE |   |      |   | ANALYSIS FOUND |   |        |        |   |        |   |         |   |        |
|--------------------------------|---------------|--------------|-----------------|---|------|---|----------------|---|--------|--------|---|--------|---|---------|---|--------|
|                                |               |              | N               | / | P    | / | K              | / | CV     | N      | / | P      | / | K       | / | CV     |
| GREENPOINT AG - LOXLEY         | 27-JB-24-FERT | 04/17/2024   | 6               | / | 20   | / | 28             | / | 595.70 | 7.95   | / | 21.63  | / | 30.57   | / | 665.09 |
| GREENPOINT AG - LOXLEY         | 28-JB-24-FERT | 04/17/2024   | 6               | / | 20   | / | 28             | / | 595.70 | 8.04   | / | 21.39  | / | 30.24   | / | 660.02 |
| GREENPOINT AG - LOXLEY         | 29-JB-24-FERT | 04/17/2024   | 33              | / | 0    | / | 0              | / | 410.85 | 33.06  | / | 0      | / | 0       | / | 411.60 |
| GREENPOINT AG - LOXLEY         | 43-JB-24-FERT | 07/01/2024   | 30              | / | 0    | / | 6              | / | 428.70 | 28.50  | / | 0      | / | 6.66    | / | 416.09 |
| GREENPOINT AG-MONTGOMERY       | 4-KM-24-FERT  | 04/01/2024   | 9.0             | / | 23.0 | / | 30.0           | / | 690.96 | 8.64   | / | 22.62  | / | 30.20   | / | 683.32 |
| GREENPOINT AG-MONTGOMERY       | 5-KM-24-FERT  | 04/01/2024   | 9.0             | / | 23.0 | / | 30.0           | / | 690.96 | 8.90   | / | 23.57  | / | 28.98   | / | 687.84 |
| GREENPOINT AG-MONTGOMERY       | 6-KM-24-FERT  | 04/01/2024   | 9.0             | / | 23.0 | / | 30.0           | / | 690.96 | 8.92   | / | 23.57  | / | 28.83   | / | 686.71 |
| GREENPOINT AG-MONTGOMERY       | 16-CJ-24-FERT | 04/12/2024   | 11              | / | 37   | / | 0              | / | 624.24 | 11.24  | / | 37.33  | / | 0       | / | 631.58 |
| GREENPOINT AG-MONTGOMERY       | 11-KM-24-FERT | 04/26/2024   | 5.0             | / | 0    | / | 45.0           | / | 476.25 | 5.16   | / | 0      | / | 42.48   | / | 455.06 |
| GREENPOINT AG-MONTGOMERY       | 12-KM-24-FERT | 04/26/2024   | 5.0             | / | 0    | / | 45.0           | / | 476.25 | 5.44   | / | 0      | / | 42.31   | / | 456.98 |
| GREENPOINT AG-MONTGOMERY       | 13-KM-24-FERT | 04/26/2024   | 5.0             | / | 0    | / | 45.0           | / | 476.25 | 5.30   | / | 0      | / | 42.45   | / | 456.52 |
| GREENPOINT AG-MONTGOMERY       | 22-CJ-24-FERT | 05/08/2024   | 21              | / | 0    | / | 0              | / | 261.45 | 21.32  | / | 0      | / | 0       | / | 265.43 |
| GREENPOINT AG-MONTGOMERY       | 20-KM-24-FERT | 05/23/2024   | 21.0            | / | 12.0 | / | 16.0           | / | 566.69 | 20.83  | / | 12.13  | / | 17.76   | / | 582.47 |
| GREENPOINT AG-MONTGOMERY       | 21-KM-24-FERT | 05/23/2024   | 21.0            | / | 12.0 | / | 16.0           | / | 566.69 | 20.54  | / | 12.91  | / | 17.35   | / | 585.36 |
| GREENPOINT AG-MONTGOMERY       | 22-KM-24-FERT | 05/23/2024   | 21.0            | / | 12.0 | / | 16.0           | / | 566.69 | 20.63  | / | 12.99  | / | 17.79   | / | 591.59 |
| GREENPOINT AG - SELMA          | 2-KM-24-FERT  | 03/07/2024   | 28.0            | / | 0    | / | 0              | / | 348.60 | 27.79  | / | 0      | / | 0       | / | 345.99 |
| HELENA CHEMICAL CO - ATMORE AL | 45-JB-24-FERT | 07/08/2024   | 28              | / | 0    | / | 0              | / | 348.60 | 27.72  | / | 0      | / | 0       | / | 345.11 |
| HELENA CHEMICAL CO - ATMORE AL | 46-JB-24-FERT | 07/08/2024   | 28              | / | 0    | / | 0              | / | 348.60 | 28.17  | / | 0      | / | 0       | / | 350.72 |
| HELENA CHEMICAL CO - ATMORE AL | 47-JB-24-FERT | 07/08/2024   | 28              | / | 0    | / | 0              | / | 348.60 | 28.50  | / | 0      | / | 0       | / | 354.82 |
| J & J BAGGING                  | 1-JB-24-FERT  | 11/03/2023   | 15              | / | 0    | / | 15             | / | 414.15 | 14.96  | / | 0      | / | 14.04   | / | 403.20 |
| J & J BAGGING                  | 3-JB-24-FERT  | 11/13/2023   | 8               | / | 8    | / | 8              | / | 309.20 | 5.21** | / | 2.73** | / | 2.27**  | / | 142.53 |
| J & J BAGGING                  | 3-KM-24-FERT  | 04/01/2024   | 13.0            | / | 13.0 | / | 13.0           | / | 452.66 | 8.94** | / | 12.44  | / | 10.12** | / | 368.23 |
| J & J BAGGING                  | 15-JB-24-FERT | 04/09/2024   | 10              | / | 10   | / | 10             | / | 348.20 | 10.22  | / | 9.06   | / | 10.47   | / | 342.88 |
| KENTWOOD COOP                  | 1CJ-24-FERT   | 10/16/2023   | 33              | / | 0    | / | 0              | / | 558.03 | 34.19  | / | 0      | / | 0       | / | 578.15 |
| LUVERNE COOP SERVICE INC       | 8-CJ-24-FERT  | 02/13/2024   | 33              | / | 0    | / | 0              | / | 558.03 | 36.60  | / | 0      | / | 0       | / | 618.91 |
| LUVERNE COOP SERVICE INC       | 9-CJ-24-FERT  | 02/13/2024   | 33              | / | 0    | / | 0              | / | 558.03 | 36.11  | / | 0      | / | 0       | / | 610.62 |
| MID STATE FARMERS CO-OP        | 1-KM-24-FERT  | 11/16/2023   | 19.0            | / | 19.0 | / | 19.0           | / | 734.35 | 18.61  | / | 18.64  | / | 20.08   | / | 735.35 |
| MILLARD MARITIME LLC           | 6-JB-24-FERT  | 02/08/2024   | 0               | / | 0    | / | 60             | / | 642.00 | 0      | / | 0      | / | 58.55   | / | 626.48 |
| MILLARD MARITIME LLC           | 14-JB-24-FERT | 04/09/2024   | 0               | / | 0    | / | 60             | / | 552.00 | 0      | / | 0      | / | 58.27   | / | 536.08 |
| MILLARD MARITIME LLC           | 22-JB-24-FERT | 04/12/2024   | 18              | / | 46   | / | 0              | / | 829.92 | 17.70  | / | 47.64  | / | 0       | / | 847.78 |
| MILLARD MARITIME LLC           | 20-CJ-24-FERT | 04/25/2024   | 21              | / | 0    | / | 0              | / | 261.45 | 21.30  | / | 0      | / | 0       | / | 265.18 |
| MILLARD MARITIME LLC           | 30-JB-24-FERT | 04/17/2024   | 18              | / | 46   | / | 0              | / | 829.92 | 17.70  | / | 47.66  | / | 0       | / | 848.04 |

| COMPANY NAME                                 | SAMPLE NUMBER | DATE SAMPLED | LABEL GUARANTEE |   |      |   | ANALYSIS FOUND |   |        |       |   |       |   |       |   |        |
|--|---------------|--------------|-----------------|---|------|---|----------------|---|--------|-------|---|-------|---|-------|---|--------|
|  |               |              | N               | / | P    | / | K              | / | CV     | N     | / | P     | / | K     | / | CV     |
| MORGAN FARMERS CO-OP                         | 7-JF-24-FERT  | 04/25/2024   | 21.0            | / | 10.0 | / | 18.0           | / | 558.75 | 21.94 | / | 10.75 | / | 18.01 | / | 580.42 |
| MORGAN FARMERS CO-OP                         | 8-JF-24-FERT  | 04/25/2024   | 26.0            | / | 4.0  | / | 18.0           | / | 541.98 | 25.03 | / | 6.59  | / | 17.50 | / | 559.41 |
| MORGAN FARMERS CO-OP                         | 11-JF-24-FERT | 04/25/2024   | 5.0             | / | 13.0 | / | 31.0           | / | 518.66 | 5.56  | / | 13.50 | / | 30.53 | / | 527.89 |
| MORGAN FARMERS CO-OP                         | 12-JF-24-FERT | 04/25/2024   | 5.0             | / | 13.0 | / | 31.0           | / | 518.66 | 5.02  | / | 13.68 | / | 31.42 | / | 531.73 |
| MORGAN FARMERS CO-OP                         | 13-JF-24-FERT | 04/25/2024   | 5.0             | / | 13.0 | / | 31.0           | / | 518.66 | 5.41  | / | 13.24 | / | 30.31 | / | 520.57 |
| MOSAIC CROP NUTRITION                        | 5-JF-24-FERT  | 03/25/2024   | 0               | / | 0    | / | 21.5           | / | 197.80 | 0     | / | 0     | / | 21.71 | / | 199.73 |
| NUTRIEN AG SOLUTIONS INC - MADISON           | 6-JF-24-FERT  | 03/25/2024   | 23.959          | / | 0    | / | 28.749         | / | 562.78 | 22.76 | / | 0     | / | 29.07 | / | 550.80 |
| NUTRIEN AG SOLUTIONS INC - SUMMERDALE        | 12-JB-24-FERT | 04/08/2024   | 9               | / | 23   | / | 30             | / | 690.96 | 8.48  | / | 22.38 | / | 30.85 | / | 684.17 |
| NUTRIEN AG SOLUTIONS INC - SUMMERDALE        | 13-JB-24-FERT | 04/08/2024   | 34              | / | 0    | / | 0              | / | 423.30 | 33.70 | / | 0     | / | 0     | / | 419.56 |
| NUTRIEN AG SOLUTIONS INC - SUMMERDALE        | 24-JB-24-FERT | 04/17/2024   | 0               | / | 0    | / | 0              | / | 0      | 0     | / | 0     | / | 0     | / | 0      |
| PIEDMONT FERTILIZER CO INC                   | 7-KM-24-FERT  | 04/02/2024   | 20.0            | / | 10.0 | / | 10.0           | / | 472.70 | 19.95 | / | 11.65 | / | 10.11 | / | 494.82 |
| SIMPLOT - TOWN CREEK                         | 1-KR-24-FERT  | 03/18/2024   | 22.54           | / | 7.51 | / | 19.53          | / | 559.21 | 21.31 | / | 7.96  | / | 19.55 | / | 550.00 |
| TALLADEGA COUNTY EXCHANGE                    | 8-KM-24-FERT  | 04/08/2024   | 19.0            | / | 19.0 | / | 19.0           | / | 661.58 | 19.84 | / | 19.45 | / | 18.35 | / | 671.99 |
| TALLADEGA COUNTY EXCHANGE                    | 9-KM-24-FERT  | 04/08/2024   | 23.0            | / | 8.0  | / | 18.0           | / | 557.31 | 23.75 | / | 10.37 | / | 21.59 | / | 630.89 |
| TALLADEGA COUNTY EXCHANGE                    | 14-KM-24-FERT | 04/29/2024   | 24.0            | / | 8.0  | / | 20.0           | / | 588.16 | 23.21 | / | 7.59  | / | 21.47 | / | 586.44 |
| TALLADEGA COUNTY EXCHANGE                    | 15-KM-24-FERT | 04/29/2024   | 9.0             | / | 23.0 | / | 30.0           | / | 690.96 | 8.53  | / | 22.88 | / | 28.21 | / | 667.06 |
| TELECON FARMERS COOP                         | 25-KM-24-FERT | 08/16/2024   | 24.0            | / | 0    | / | 18.0           | / | 464.40 | 24.49 | / | 0     | / | 17.57 | / | 466.54 |
| TENNESSEE VALLEY COOPERATIVE-MOULTON         | 4-KR-24-FERT  | 06/11/2024   | 20              | / | 0    | / | 20             | / | 433.00 | 19.21 | / | 0     | / | 21.11 | / | 433.37 |
| TENNESSEE VALLEY COOPERATIVE-MOULTON         | 5-KR-24-FERT  | 06/11/2024   | NA              | / | NA   | / | NA             | / | 0      | 31.66 | / | None  | / | None  | / | 394.17 |
| TENNESSEE VALLEY COOPERATIVE-MOULTON         | 6-KR-24-FERT  | 06/11/2024   | NA              | / | NA   | / | NA             | / | 0      | 31.38 | / | None  | / | None  | / | 390.68 |
| Timac Agro USA Inc. - Rainbow Fertilizer LLC | 1-CG-24-FERT  | 02/06/2024   | 5.0             | / | 15.0 | / | 30.0           | / | 571.15 | 5.26  | / | 15.32 | / | 29.27 | / | 571.27 |
| Timac Agro USA Inc. - Rainbow Fertilizer LLC | 2-CG-24-FERT  | 02/06/2024   | 5.0             | / | 15.0 | / | 30.0           | / | 571.15 | 5.24  | / | 14.41 | / | 30.00 | / | 568.70 |